

Technical Data Sheet

**Polyflam 12N4012NG6009GRY**



Polypropylene, Unspecified (PP, Unspecified)

**Product Description**

Polyflam 12N4012NG6009GRY is a Polypropylene, Unspecified material.

**Forms** Pellets  
**Additive** Flame Retardant

| Typical Properties                                    | Nominal Value | Units             | Test Method |
|---|---------------|-------------------|-------------|
| <b>Physical</b>                                       |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                      | 8.0           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                            | 0.928         | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                     |               |                   |             |
| Tensile Strength at Yield                             | 30.3          | MPa               | ASTM D638   |
| Flexural Modulus                                      | 1280          | MPa               | ASTM D790   |
| <b>Impact</b>   |               |                   |             |
| Gardner Impact  | 16.9          | J                 | ASTM D5420  |
| Notched Izod Impact                                   | 80            | J/m               | ASTM D256   |
| <b>Thermal</b>  |               |                   |             |
| Deflection Temperature Under Load Unannealed (66 psi) | 90.6          | °C                | ASTM D648   |
| RTI Elec  | 110           | °C                | UL 746B     |
| RTI Imp   | 110           | °C                | UL 746B     |
| RTI Str   | 110           | °C                | UL 746B     |
| <b>UL Information</b>                                 |               |                   |             |
| Flame Rating, (1.5 mm)                                | V-2           |                   | UL 94       |

| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 4             | hr    |
| Drying Temperature     | 82            | °C    |
| Nozzle Temperature     | 177 to 227    | °C    |
| Processing (Melt) Temp | 182 to 227    | °C    |
| Front Temperature      | 177 to 227    | °C    |
| Middle Temperature     | 177 to 227    | °C    |
| Rear Temperature       | 177 to 216    | °C    |
| Injection Rate         | Slow-Moderate |       |
| Back Pressure          | <0.689        | MPa   |
| Mold Temperature       | 32 to 66      | °C    |
| Cushion                | 6.35 to 12.7  | mm    |